2022-2026-CSE-A

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Write Java program on use of Inheritance.

Create a class Vehicle

- contains the data members color of String type and speed and size of integer data type.
- write a method setVehicleAttributes() to initialize the data members

Create another class Car which is derived from the class Vehicle

- contains the data members cc and gears of integer data type
- write a method **setCarAttributes()** to initialize the data members
- write a method displayCarAttributes() which will display all the attributes.

Write another class InheritanceDemo with main() it receives five arguments color, speed, size, cc and gears.

Source Code:

InheritanceDemo.java

```
class Vehical{
   String color;
   int speed, size;
   public void setVechicleAttributes(String col,int sp,int si){
      color=col;
      speed=sp;
      size=si;
   }
}
class Car extends Vehical{
   int cc,gears;
   public void setCarAttributes(int c,int ge){
      cc=c;
      gears=ge;
   public void displayCarAttributes(){
      System.out.println("Color of Car : "+color);
      System.out.println("Speed of Car : "+speed);
       System.out.println("Size of Car : "+size);
      System.out.println("CC of Car : " +cc);
      System.out.println("No of gears of Car : " +gears);
   }
}
class InheritanceDemo{
   public static void main(String args[]){
      Car c =new Car();
      c.setVechicleAttributes(args[0],Integer.parseInt(args[1]),Integer.parseI
nt(args[2]));
      c.setCarAttributes(Integer.parseInt(args[3]),Integer.parseInt(args[4]));
      c.displayCarAttributes();
```

} }

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Color of Car : Blue
Speed of Car : 100
Size of Car : 20
CC of Car : 1000
No of gears of Car : 5

Test Case - 2	
lser Output	
olor of Car : Orange	
peed of Car : 120	
ize of Car : 25	
C of Car : 900	
o of gears of Car : 5	